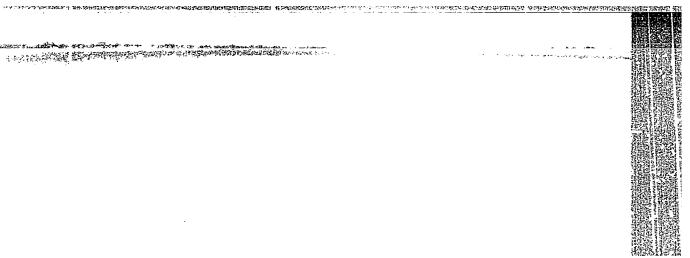


THE STATE OF THE PROPERTY OF T



USSR/Chemistry of High-Molecular Substances, F

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1122

Author: Alekseyenko, V. I., and Mishustin, I. U.

Institution: None

> Title: On the Compatibility of Polyvinylchloride and Polyvinylacetate with

Other High Polymers

Original

Periodical: Kolloid. zh., 1956, Vol 18, No 3, 257-261 (English summary)

Abstract: The possibility of combining divinylchlorovinylidene rubber (I) with

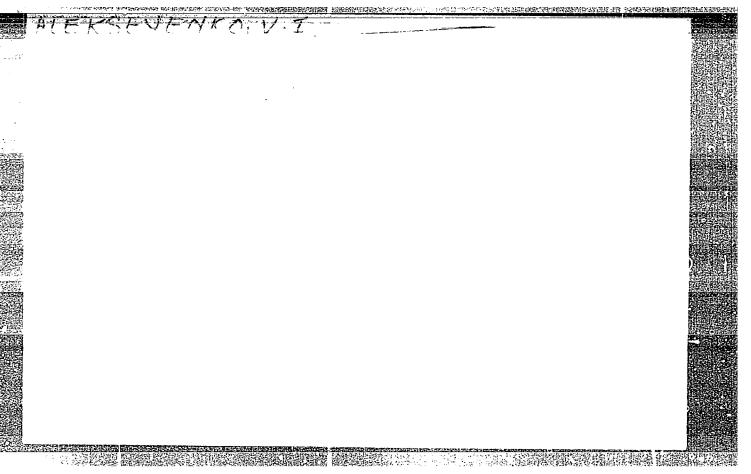
rigid polymers, e.g., polyvinylchloride (II) and polyvinylacetate, as a plasticizer is established. The dependence of the yield strength and the breaking elongation on the rubber content in the plasticized polymers is given. It is shown that when sheets of II containing I

APPROVED FOR RELEASE 1959 20 / 20 of rength Africage 19 explained by the interaction between the polar

groups. The authors hold that the nature of the polar groups is not

particularly important for competibility.

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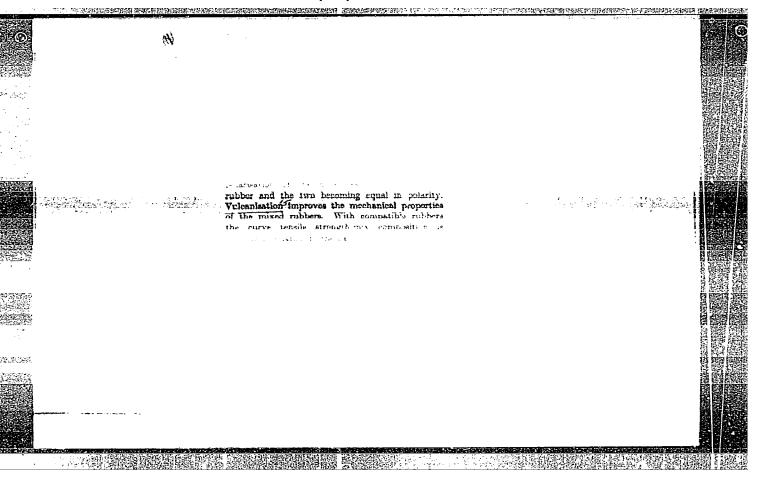


KALINIHA, L.Ye.; ALPENHYENKO, V.L.; BOYUTSKIY, S.S.

The separation of solutions of high polymers [with English summary in insert]. Koll. shur.18 no.6:691-696 H-D '56. (MLRA 10:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut sameniteley koshi, Moskva.

(High molecular weight compounds) (Solution (Chemistry))



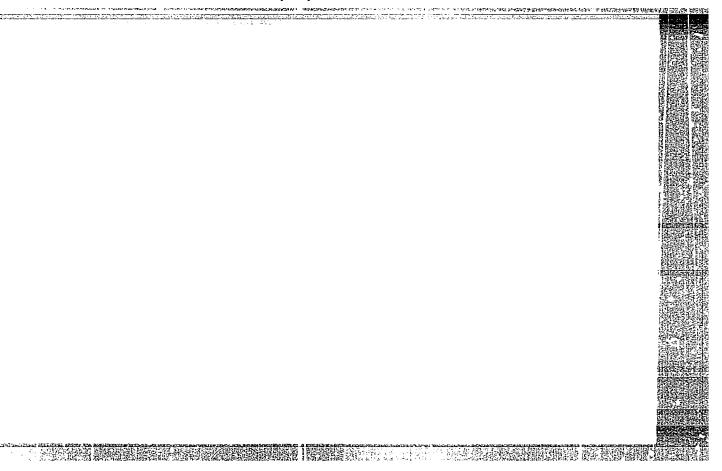
ALEKSEYENKO, V.I.; BUGOSLAVSKAYA, L.A.; MISHUSTIN, I.U.

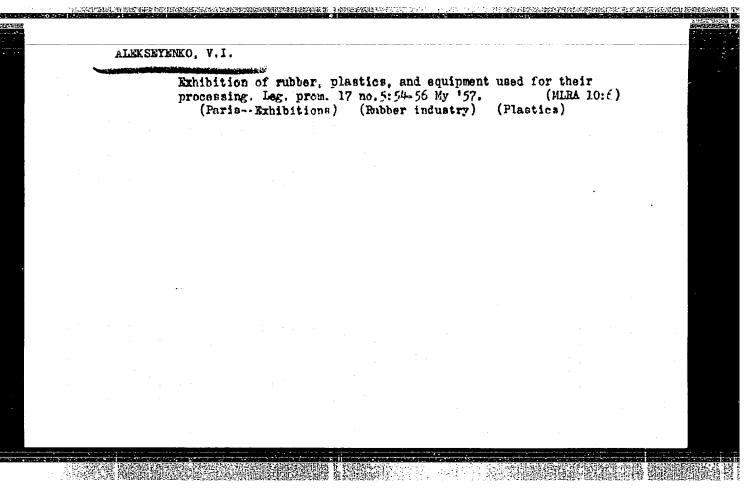
[15] 5 \$1500 \$1 \$2500 \$1000 \$

Compatibility as a basic factor in adhesion of high molecular substances. Kauch, i res. 16 no.8:10-15 Ag 157. (MIRA 10:11)

1. TSentral'nyy nauchno-issledovatel'skiy institut zameniteley kozhi i obuvnaya fabrika "Skorokhod.".

(Adhesion) (Macromolecular compounds)





ALEKSEYENKO, V.I.; BLAGOVESTOV, B.K.; BUGOSLAVSKAYA, L.A.; EHUVIKINA, A.I.;

DAARA COMENKO, P.I.; MISHUSTIN, I.U.; NISNEVICH, Ye.A.

Use of synthetic gutta-percha in the shoe industry. Leg. prom. 17
no.6:18-20 Je '57.

(Shoe industry) (Gutta-percha)

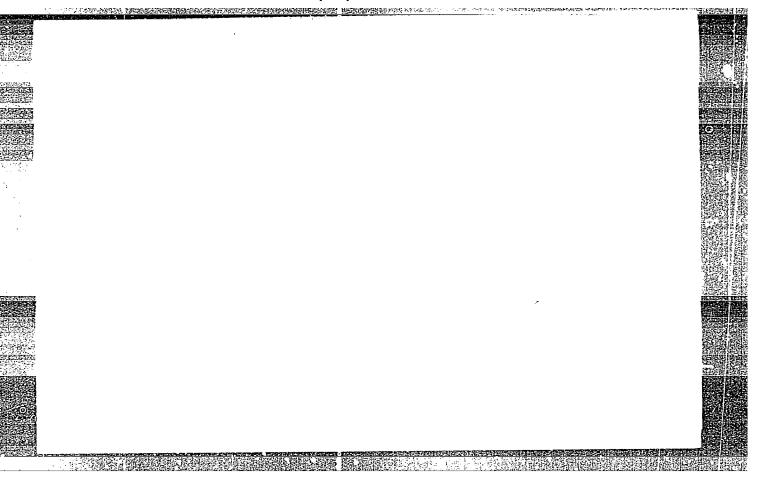
Hlelcseyenko, U. 1.

Artificial leather industry. Leg.prom. 17 no.11:62-66 N '57.

(MIRA 10:12)

l.Direktor TSentral'nogo nauchno-issledovatel'skogo instituta zameniteley kozhi.

(Leather, Artificial)



MATVEYEV, V.V.; PISARENKO, A.P.; ALEKSEYENKO, V.I.

"MPS" and "MPA" semiautomatic presses for vulcanization of rubber goods. Kauch. i rez. 17 no.12:17-20 D 58.

(MIRA 12:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennoy kozhi.

(Hydraulic presses)

(Vulcanization)

ALIKSKYKNKO, V.T.: BUGOSLAVSKAYA, L.A.: ZAKHARCHENKO, P.I.: KARAPETYAN, N.G.: MISHUSTIN, I.U.

Glue made from latexlike NT "nairite." Leg. prom. 18 no.1:23-25 Ja '58. (Clue)

ALEKSEYENKO, V.I.; SHTARKH, B.V.

Characteristics of intermolecular bonds in combined systems. Leg.
prom. 18 no.3:18-21 Mr '58.
(Folymers) (Molecular association)

(Folymers) (Molecular association)

ALEKSEYENKO, V.I.; MISHUSTIN, I.U.

Plasticizing polyvinyl chloride, polyvinyl acetate, and nitrocellulose with carboxyl-containing polymers. Leg.prom. 18 no.6: 18-20 Je '58. (MIRA 12:10)

(Leather, Artificial) (Plasticizers)

Make use of advances in chemistry in developing the artificial leather production. Leg. prom. 18 no.7:1-4 Jl '58. (MIRA 11:9) 1. Direktor Vsesoyusnogo nauchno-issledovatel'skogo instituta iskusstvennoy kozhi. (Leather, Artificial)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100920004-5"

HLEKSEYENKO, V. I.

69-20-1-3/20

AUTHORS: Voyutskiy, S.S., Alekseyenko, V.I., Kalinina, L.Ye.

TITLE: The Compatibility of Nitrocellulose and Butadiene Copolymers (Sovmestimost' nitrotsellyulozy s butadiennitril'nymi sopo-

limerami). 4. Relaxation Properties of Binary Mixtures (4.

Relaksatsionnyye svoystva binarnykh smesey)

PERIODICAL: Kolloidnyy Zhurnal, 1958, Vol. XX, # 1, pp 20-28 (USSR)

ABSTRACT: The deformation of high polymers leads to a complex re-

connected with the surmounting of the forces of interaction between the molecules and with the disturbance of their equilibrium positions. Relaxation is the establishing of a new equilibrium condition in a deformed body taking place under the influence of a thermal movement and leading to a reduction of interior stress. In the article, relaxation of stress is investigated in films made from mixtures of nitro-

grouping of the elastic chain molecules. This regrouping is

cellulose and butadiene nitrile copolymers of different polarity, with the aim of explaining the mechanism of plastifi-

Card 1/4 cation by high-molecular softening agents. The films used in the investigation contained different quantities of acryl-

association of the second section of the second of the sec

69-20-1-3/20

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The Compatibility of Nitrocellulose and Butadiene Copolymers. 4. Relaxation Properties of Binary Mixtures

groups, whereas the reverse is true at higher copolymer content. The limiting relaxation time, t*, which is the time interval between two elementary acts of molecular regrouping, is independent of the degree of deformation only for nitrocellulose-copolymer mixtures containing 28.6% or over-acrylonitrile groups, i.e. for sufficiently homogeneous mixtures. For the relaxation of pure butadiene nitrile copolymers, the energy of activation amounts to 10,7 kcal/mole. This is caused by the fact that in all copolymers the local bonds have the same character. For mixtures of nitrocellulose with copolymers, the energy of activation is lower and varies between 5.3-7.8 kcal/mole. It is possible that the lower energy in the last case is caused by purely steric conditions opposing the close approach of popular molecule groups of both polymers in the mixture.

There are 6 figures, 3 tables, and 12 references, 9 of

Card 3/4

which are Soviet, 2 English, and 1 Swiss.

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ITLE: A method for producing insulating plastics, Class 39, No. 169246		
	breteniy i tovarnykh znakov, no. 6, 1	
TOPIC TICL PARTS IN	ochurer, polar polymer, noncolar poly	mer
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ASSOCIATION: none		- 00
SUBMITTED: 31Mar61	ENCI: 00	SUB CODE: MT,GC
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BILENKIN, Dmitriy Aleksandrovich; ALEKSEYENKO, V.I., kand.tekhn.nauk, nauchnyy red.; GOLUBKOVA, V.A., red.; MEDVEDEVA. R.A., tekhn.red.

[Artificial leather] Iskusstvennaia kozha. Moskva, Izd-vo "Sovetskaia Rossiia," 1959. 8 p. (NIRA 13:7) (Leather, Artificial)

NARINSKAYA. A.R.: PISARENKO, A.P.: ALEKSEYENKO, Y.I.

Improving the properties of polyamides used as finishing coatings. Kozh.-obuv.prom. no.2:17-20 F '59. (MIRA 12:6) (Resins, Synthetic) (Leather, Artificial)

15(9)
AUTHOR:

Alekseyenko, V. I.

SOV/64-59-2-10/23

TITLE:

On the Compatibility of Polymers (O sovmestimosti polimerov)

PERIODICAL:

Khimicheskaya promyshlennost', 1959, Nr 2, pp 139-144 (USSR)

ABSTRACT:

In this paper problems arising in connection with the properties of finished products obtained by mixing various polymers are discussed, as well as methods of determining the compatibility of polymers. V. A. Kargin, G. L. Slonimskiy, P. P. Kobeko et al, found in their investigations that many linear polymers have the structure of a liquid phase, i.e. they belong to the class of amorphous polymers. The relation between the polar and apolar part of the molecule and their interaction play an important part in the reciprocal solubility of polymers. In polar low molecular substances the oriented (dipole) effect and in the apolar substances the dispersion effect (Table 1) predominates. Plastifiers for polar plastics (polyvinylchloride etc) should have a polar and an apolar part of molecule, with polarity being neither too weak nor too strong. The relation between plastifying properties and molecular structure (table 2 according to reference 8), as well as a diagram of their effect in PVC (Ref 8) are shown in a table (Fig 1). In the papers (Refs 9-11) the authors pointed

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On the Compatibility of Polymers

SOV/64-59-2-10/23

to the influence exercised by the polarity of the molecules on the odmpatibility of polymers, as may be seen also from diagrams on the function of tensile strength of nitrocellulose films of a content of weakly polar butadiene-styrene-copolymers or highly polar butadiene-nitryl-copolymers (Figs 1, 2 and Table 3). Investigations described in other papers (Refs 11, 12) on the plastification of PVC with butadiene vinylidene chloride-(DVKhB-70), carboxylcontaining and acrylonitryl-rubber types (SKN-26) led to similar observations. Rubber types with a polar and an apolar part of the molecule (butadiene styrene SKS-30, SKS-50, butadiene methyl styrene SKMS-30, SKMS-50) and types with only an apolar part (butadiene SKB) have no plastifying exfect on PVC (Table 4). It may be assumed that a polar polymer may be mixed with another polar polymer. In this connection the nature of the polar groups is not important, only polarity must be sufficiently similar. On the other hand, also apolar polymers may be mixed. The polymers are mixed if the mixing process is exothermal with the exception of SKS 30 + polystyrene and SKS 30 + SKB, which the author considers to be anomalous. In investigating mixed polymers in the infrared spectrum no changes could be observed in mixing apolar sodium butadiene rubber with polar nitryl rubber and polar nitrocellulose

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On the Compatibility of Polymers

307/64-59-2-10/23

in the infrared absorption spectrum (Fig 4). Further, it was found that the spectra are summed up. By mixing nitryl rubber with nitrocellulose the absorption band of the CM-group shifts (Fig 5). The additional energy of intermolecular interaction in this mixing may be approximately computed according to an equation (Ref 19). The problem of the incompatibility of polymers of similar polarity - polychloroprene + PVC, PVC + nitrocellulose - remains still to be solved. There are 5 figures, 4 tables, and 20 references, 17 of which are Soviet.

Card 3/3

5/081/60/000/014/008/009 A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 14, p. 620, # 59669 Kand. tekhn. mauk

Alekseyenko, V.I., Kalinina, L.Ye. AUTHORS:

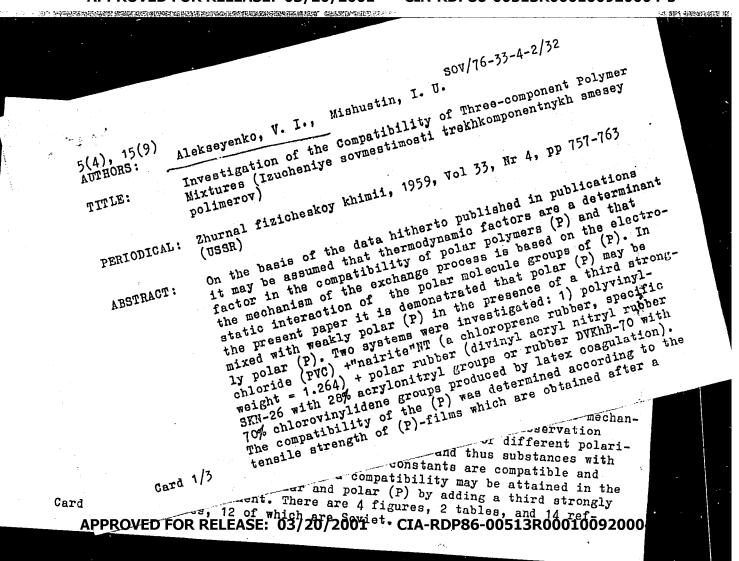
Studies Into the Compatibility of Acetyl Cellulose With Rubber TITLE:

PERIODICAL: Kozhevenno-obuvn. prom-st', 1959, No. 11, pp. 29-33

An amount of 20-50% cellulose ester (acel) with 42% acetyl groups and 4.2 dielectric constant at 60-70°C was added to the following rubber, masticated on rollers: CKH-18 (SKN-18), CKH-26 (SKN-26), CKC-30 (SKS-30) and polychloroprene rubber with dielectric constants of 6.4, 10.3, 2.9 and 8.2 respectively. Plates of 1.5 mm thickness were removed from the rollers and subjected to heat treatment in a press for 10 min at 120°C; extension diagrams were taken on a Polani dynamometer. The modification of acel properties is possible by combining it with SKN-18 and SKS-30 to obtain highly elastic film materials. The correlation of the polarity of components is a determining factor in the combination of cellulose esters with rubber, independent of the chemical nature of the polar groups; the introduction of a vulcanizing group

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CIA-RDP86-00513R000100920004-5" APPROVED FOR RELEASE: 03/20/2001



Investigation of the Compatibility of Three-component Polymer Mixtures

rolling (140-150 $^{\circ}$ C) and pressing (10 min, 150-160 $^{\circ}$ C) of the (P)-mixtures. The experimental results which are tabulated (Table 1) and represented in a triangular diagram (Fig 1) show that the combination SKN-26 or DVKhB-70 with "nairite" NT proves to be a better plastifier for PVC than dibutyl phthalate (or SKN-26 or a single DVKhB-70) and that mixtures with good properties are obtained (if the PVC-content is not higher than 50%). 2) The system polyvinyl acetate (PVA) + "nairite polar rubber (as mentioned above) was investigated (after rolling at 50-60°C). The results (Table 2) show that in analogy to the above mentioned observations a combination of nairite NT and DVKhB-70 with PVA yields mixtures with high physicomechanical properties. Theoretical investigations of the mechanism of formation of ternary mixtures led to the observation that the compatibility of three components of different polarity depends on the dipole interaction and thus substances with the same or similar dielectric constants are compatible and that on the other hand, a compatibility may be attained in the case of weakly polar and polar (P) by adding a third strongly polar component. There are 4 figures, 2 tables, and 14 references, 12 of which are Soviet.

Card 2/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100920004-5"

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Investigation of the Compatibility of Three-component Polymer Mixtures

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel skiy institut plenochnykh materialov i iskusstvennoy kozhi

(All-Union Research Institute of Film Materials and Arti-

ficial Leather)

SUBMITTED:

July 4, 1957

Card 3/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100920004-5"

88316

S/191/60/000/002/002/012 B027/B058

15.8101

AUTHORS: Alekseyenko, V. I., Mishustin, I. U.

TITLE: Combination of Polyethylene With Other Polymers

PERIODICAL: Plasticheskiye massy, 1960, No. 2, pp. 8-13

TEXT: The authors deal with the improvement of the plastic and elastic properties of polyethylene. The thermal resistivity of pure polyethylene is insufficient, and thus it is necessary to admix other polymers in order to increase the tensile strength of polyethylene without reducing or increasing its durability. Ye. Ye. Rylov and V. L. Karpov (Ref. 6) proved on the basis of electronographic and roentgenographic studies of polyethylene-polyisobutylene mixtures that these polymers yield macrohomogeneous but not microhomogeneous mixtures. N. V. Nikhaylov, Z. V. Ukhanova, V. S. Klimenkov, and Ye. A. Kuril'chikov (Ref. 7) point out that when using polymers as two-, three- or multi-component mixtures for the manufacture of synthetic fibers, the properties of the latter improve. G. L. Slonimskiy and G. V. Struminskiy (Ref. 8) proved that heat is separated when mixing rubber CKE (SKB) and CKC-30 (SKS-30) with

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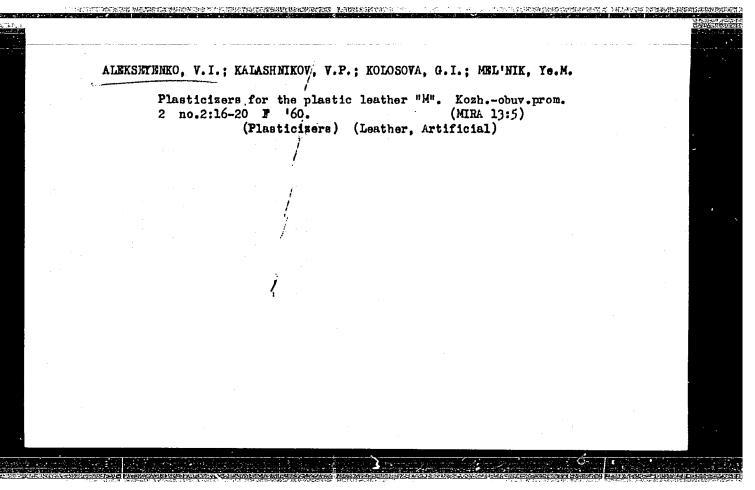
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Combination of Polyethylene With Other Polymers

S/191/60/000/002/002/012 B027/B058

polystyrene which indicates the miscibility of these products. A. A. Tager and V. A. Kargin studied the heat of solution of polystyrene in ethyl benzene and proved that the heat separation during solution is due to a previous stratification of the chain molecules from CKC-30 (SKS-30) and polystyrene because of the insufficient flexibility of these molecules. A. A. Tager, A. Smirnova, and N. Sysuyeva pointed out the importance of dense stratification of polymer molecules and the change of the volume of the system during their solution. During the experiments it was found that an admixture of up to 25% polyisobutylene and of the rubber types ABXB -70 (DVKhB-70) and CKC-30-1 (SKS-30-1) to polyethylene as well as vulcanizing improves the physico-mechanical properties of the mixture. These mixtures, vulcanized or unvulcanized, are therefore recommended for practical use. When selecting polymers for the purpose of improving the polyethylene properties, the dielectric permeability and density of molecule stratification of these polymers must be taken into account. There are 9 figures, 4 tables, and 11 references: 9 Soviet and 2 US.

Card 2/2



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ZAYONCHKOYCKIY, A.D.; ALKKSEYRIKO, Y.I.; BERNSHTEYH, M.Kh.; YABKO,
Ya.M.; KIRIYENKO, N.Y.

Use of polyethylene in menufacturing artificial leather. Kogh.—
obuv.prom. 2 no.?:14-18 J1 '60. (MIRA 13:8)

(Leather, Artificial)

(Polyethylene)

ALEKSEYENKO, V.I.: KOPYL, A.Y.

Make full use of potentials in the artificial leather industry. Kozh.-obuv.prom. 2 no.8:4-7 Ag '60. (MIRA 13:9)

1. Kirektor Vsesoyuznogo nauchno-issledovatel'skogo instituta
plenochnykh meterialov i ikusstvennoy kozhi (for Alekseyenko).
2. Zamestitel' glavnogo khimika Vsesoyuznogo nauchno-issledovatel'skogo instituta plenochnykh materialov i iskusstvennoy kozhi
(for Kopyl).

(Leather, Artificial)

ALEKSEYENKO, V. I.; KOPYL, A. N.

Manufacture of artificial shoe-upper leather from textile fabrics (continuation). Kosh-obuv-prom. 2 no.9:8-10 S '60. (MIRA 13:10)

1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta plenochnykh materialov i iskusstvennoy kozhi (for Alekseyenko).

2. Zamestitel' glavnogo khimika Vsesoyuznogo nauchno-issledovatel'-skogo instituta plenochnykh materialov i iskusstvennoy khozi (for Kopyl).

(Leather, Artificial)

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\$/191/60/000/012/003/016 B020/B066

AUTHOR:

Alekseyenko, V. I.

TITLE:

Practical Importance of Mixtures of Incompatible Polymers

PERIODICAL:

Plasticheskiye massy, 1960, No. 12, pp. 6 - 8

TEXT: The author investigated the applicability of mixtures of incompatible polymers for glueing the fiberbase of artificial leather, and for electroinsulating films. For the former purpose, a mixture of polyethylene and butadiene-styrene rubber (polyethylene for cables, molecular weight 15,000, with 14.5 % polyisobutylene; butadiene-styrene rubber with 30 % styrene, filled with lampblack and kaolin) was used. Besides, also mixtures of polyethylene with reclaimed rubber were studied. Stearic acid was used as surface-active substance. The mixtures were rolled and then vulcanized. Figs. 1 and 2 give the results of tests made on films obtained from various mixtures. Fig. 1 shows the change in tensile strength and relative elongation of films from polyethylene and butadiene-styrene rubber with lampblack. These values drop when introducing polyethylene into butadienestyrene rubber; relative elongation decreases more than tensile strength.

Card 1/3

Practical Importance of Mixtures of Incompatible Polymers

S/191/60/000/012/003/016 B020/B066

Fig. 2 shows the change in tensile strength and relative elongation of films from mixtures of polyethylene and butadiene-styrene rubber with kaolin. Like in the previous case (Fig. 1), relative elongation decreases more than tensile strength. Beginning from an almost equal ratio of the two components mentioned, a solidification of the system occurs, which may be explained by the formation of a new system in which the polyethylene represents the dispersion medium, and the rubber mixture the disperse phase. The fiberbase (worsted cotton) was impregnated by molding some of its layers with spread adhesives, and thus glued. The fiberbases glued by means of incompatible polymer systems were tested for their mechanical properties (Table). The highest seam strength (7.22 kg/mm) was obtained at a content of 75 % of rubber mixture and 25 % of polyethylene. In connection with the investigation of electroinsulating properties of incompatible polymers it was found that in the disperse system "polymer-polymer" the molecules are not closely packed on the boundary between the disperse phase and the dispersion medium. One of the reasons for this phenomenon is the dipole distribution which does not favor close packing. On the boundary between the dispersion medium and the disperse phase the dipoles

Card 2/3

Practical Importance of Mixtures of Incompatible Polymers

S/191/60/000/012/003/016 B020/B066

with charges of equal signs face each other (Fig. 3), and the repulsive forces are responsible for the leaks in the boundary layer. Another distribution of the dipoles is also possible, in which charges of different signs face each other (Fig. 4), which also accounts for an untight packing of molecules in the boundary layer. This fact explains the high electroninsulating capacity of incompatible polymer compounds. The dielectric constant obtained for some incompatible mixtures is smaller than the additive dielectric constant of the components, while it is higher in compatible mixtures. For this reason, a comparison of the dielectric constant of multicomponent mixtures with the sum of dielectric constants of the individual components may indicate whether the respective polymer mixture is compatible or incompatible. A. D. Zayonchkovskiy and M. M. Bershteyn took part in this study. There are 4 figures and 1 table.

Card 3/3

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S/190/60/002/010/001/026 B004/B054

11.2210 AUTHOR:

Alekseyenko, V. I.

TITLE:

The Problem of Compatibility of Polymers

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 10,

pp. 1449-1455

TEXT: To investigate the compatibility of polymers, the author made the following experiments: 1) Mixing of solutions of CKC-30-1 (SKS-30-1) rubber (containing 1.25, 8, and 12% of methacrylic acid) with solutions of nitrocellulose (12% N) in cyclohexanone; 2) mixing of solutions of the same rubber with high-pressure polyethylene in benzene. The mixtures were prepared in different ratios of the components, and it was observed for 60 days whether a separation in two layers occurred. In this case, the viscosity of the individual layers and their composition were determined (Table 1). Mixtures of 75% of polyethylene and 25% of rubber, as well as 25% of nitrocellulose and 75% of rubber were stable. 3) The author compared the additive value of the specific gravity with the experimentally found value when mixing polyvinyl chloride with divinyl styrene rubber of the type CKC-30 (SKS-30), divinyl nitrile rubber of the type CKH-40 Card 1/3

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The Problem of Compatibility of Polymers

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(SKN-40), and divinyl chloro-vinylidene rubber of the type \triangle BX5-70 (DVKHB-70) (Fig.), and 4) he measured the volume contracting when mixing these substances (Table 2). From the experimental data, the author arrived at the following conclusions: The copolymer mixtures are separated in two layers by the formation of molecular associations of the components in different ratios. If these associations only contain small amounts of solvent, a precipitate is also formed. For the separation into layers, the following relation holds: $E_{p_2}(s) > E_{p_1p_2}(s) < E_{p_1}(s)$, where $E_{p_1}(s)$,

 $E_{p_2(s)}$ is the energy of interaction of the polymers p_1 , p_2 with the solvent, $E_{p_1p_2(s)}$ the energy of interaction between the two polymers and the solvent.

If the mixture is stable, $E_{p_2(s)} < E_{p_1p_2(s)} > E_{p_1(s)}$ holds. When mixing

high-molecular compounds, the molecular packing is intensified, which fact can be ascertained by determining the specific gravity of the components and their mixture. To clarify these processes, the author considers it necessary to study the influence of the polarity of the polymers, the influence of various side groups, and the chain flexibility. There are

Card 2/3

88534

The Problem of Compatibility of Polymers

S/190/60/002/010/001/026 B004/B054

1 figure, 2 tables, and 9 Soviet references.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy institut plenochnykh

materialov i iskusstvennoy kozhi

(All-Union Scientific Research Institute of Film Materials

and Artificial Leather)

SUBMITTED:

November 9, 1959

Card 3/3

ALEKSEYENKO, V. I., Dr. Teoh. Sci. (diss) "Work in Field of Technology of Artificial Leather and Pellicular Materials," Moscow, 1961, 35 pp (All-Un. Sc.Res.Inst. of Pellicular Materials and Artificial Leather "VNIIPIK") 250 copies (KL Supp 12-61, 260).

ALEKSEYENKO, Vladimir Iosifovich; KOLESNIKOV, Vladimir Nikitich; SAFRAY, Boris Aleksandrovich; KHROMOVA, Nina Sergeyevna; PAVLOV, S.A., prof., nauchnyy red.; KATS, A.S., inzh., nauchnyy red.; GUSEVA, A.I., red.; BATYREVA, G.G., tekhn. red.

[Design and planning of new and reorganized factories for artificial (rubber-type) leather] Proektirovanie novykh i rekonstruiruemykh predpriiatii iskusstvennoi kozhi (tipa reziny). Moskva, Izd-vo nauchno-tekhn.lit-ry RSFSR, 1961. 102 p. (MIRA 15:3)

(Rubber goods industry)

S/191/61/000/004/001/009

B110/B208

15 9200

1209, 1372

AUTHOR:

Alekseyenko, V. I.

TITLE:

Methods of preparing some combined polymers, and their

properties

PERIODICAL:

Plasticheskiye massy, no. 4, 1961, 3-6

TEXT: The mutual dissolution of polymers for the preparation of plastics having certain properties is limited by the structure and properties of the macromolecules. Additional polymers have frequently been introduced for the cross-linking of the two original polymers. In some cases, the polymers are not very well suited for copolymerization because of short chain lengths and dense molecule packing. In this case, 1) the latices or aqueous dispersions may be combined, dried and pressed; 2) the highly disperse powders of the polymers may be combined and then pressed; 3) their latices or dispersions may be combined with solutions of the polymers, dried and pressed. The hydrophilic polymers permeable to moisture, which are used for clothing and shoes, are prepared in the form of films and

Card 1/7

Methods of preparing some combined...

S/191/61/000/004/001/009 B110/B208

coatings of fine porous structure. The author tried to combine polyvinyl alcohol and carboxyl-containing rubber (with 10% methacrylic acid) in two ways: 1) Small portions of a 35% aqueous solution were incorporated into the rubber, after which the mixture was cold-rolled up to dehydration and formation of a transparent film, and then pressed at 140°C for 10 min. 2) A 16% aqueous polyvinyl alcohol solution was mixed with 18% latex. The films dried at room temperature were then pressed at 140°C for 10 min. According to the Table and Figs. 1 and 2, the second method yields plastics with better mechanical properties (strength limit, relative elongation). The second system shows the additive properties of the components; the first shows a negative deviation from additivity, and gives lower strength. In the case of 1), the maximum of the relative elongation at 25% PVC and 75% rubber is higher than the additive value. In the case of 2), the size of links A with carboxyl-containing rubber which are determined by the dimensions of the latex globules, remains constant. The size of links B with polyvinyl alcohol molecules varies with their dosage in the mixture. In 2), the rubber properties are therefore far more pronounced as compared with the properties of polyvinyl alcohol than in 1). Hence, the values of the relative elongation are higher in 2) than in 1), even at a low rubber

Card 2/2

Methods of preparing some combined ...

ड/191/61/000/004/001/009 B110/B208

content. Capability of swelling separation of water are also better in 2) since the polyvinyl alcohol is better distributed between the rubber globules. Also combinations of polychloroprene rubber 1-3 (L-3) nairit and polybutadiene-chlorovinylidene copolymer ABXB-70 (DVKhB-70) were studied. The strength limit on elongation was additive (Fig. 3, curve 1), whereas the relative elongation (Fig. 4, curve 1) somewhat deviated from additivity. In the latex method, maxima of strength limit and relative elongation were observed at a nairit/copolymer ratio of 85:15 (Figs. 3 and 4), which results in a screen-like nairit-copolymer structure. The following ratios were examined under an electron microscope: 80:20; 60:40; 40:60; and 20:80. The latex mixtures were first heated at 70 ± 2°C for 5 hr. Considerable coalescence of the globules of both components was found at a nairit/copolymer ratio = 20:80 by a 7500-fold electron_microscopic magnification. and at a ratio of 80:20 screen-like structure in which the globules of nairit and copolymer participated. Coalescence was less then in the first case. Structure and size of the links may thus be changed by a proper choice of the ratios of latices. There are 8 figures, 1 table, and 1 Soviet-bloc reference.

Card 3/2

Ways for developing film materials and artificial leather.

er in Franchen (Kristische School auf einen der Bereitsche Aufsteit in beschiede in

Vest. AN SSSR 31 no.4:73-82 Ap '61.
(Plastics)
(Leather, Artificial)

(MIRA 14:4)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100920004-5"

BARAMBOYM, Bikolay Konstantinovich, prof., doktor khim. nauk; SLONIMSKIY, G.L., prof., doktor khim. nauk, retsenzent; ALEKSEYENKO, V.I., kand. tekhn.nauk, retsenzent; MINAYEVA, T.M., red.; SHAPENKOVA, T.A., tekhn. red.

CONTRACTOR OF THE PROPERTY OF

[Mechanochemistry of polymers; chemistry of mechanical processes involved in the treatment of high polymers] Mekhanokhimiia polimerov; khimiia mekhanicheskikh protsessov pererabotki vysokopolimerov. Moskva, Izd-vo nauchno-tekhn. lit-ry RSFSR, 1961. 250 p. (MIRA 15:2)

(Polymers)

New rapid method for determining the specific gravity of film materials. Plast.mazsy no.10:60-62 '61. (MIRA 15:1) (Films (Chemistry)) (Specific gravity)

33283 S/191/62/000/002/001/008 B110/B101

15,9300 2209

AUTHOR: Alekseyenko, V. I.

TITLE:

Swelling of combined polymers in low-molecular solvents

PERIODICAL: Plasticheskiye massy, no. 2, 1962, 5 - 10

TEXT: In a two-component system with complex formation, the degree of swelling depends on the amount of the complex-bound solvent: $E_{123} > E_{12}$, where E_{123} is the energy of linkage among the molecules of polymers I and II and the solvent, E_{12} is the energy of linkage among I and II molecules. V For polymers with limited mutual solubility there exist optimum, quantitative ratios decisive for the specific properties of the system. Deviation from the optimum ratio with optimum mechanical properties causes the formation of a complex system composed of a portion

the formation of a complex system composed of a portion combined to a limited extent, and a disperse excess of one of the polymers. The author found (Vysokomol. soyed., No. 10 (1960)) minimum swelling to occur with an optimum ratio. The mixture of solutions separates into layers owing Card 1/3

33283 S/191/62/000/002/001/008 B110/B101

Swelling of combined polymers...

to a decrease in solubility of the combined system in the initial solvent. Swelling of polyvinyl chloride (PVC) + CkH-18 (SKN-18) rubber (I), PVC + Ck H-26 (SKN-26) (II), and PVC + Ck H-40 (SKN-40) (III) systems was determined with MacBain's spring balance (~ 10 g addition, ~200 ml of dichloro ethane). The curves obtained showed a steep rise at a 90% PVC content. With (II) and (III) points of inflection occur at a rubber content of 60 and 50% which vanish after some period of swelling. The dependence of residual elongation of PVC films on the butadiene nitrile rubber content showed a curve similar to that of rupture elongation. The curve first rises, then drops sharply at a rubber content of 45 - 50%, and rises again. The optimum point of inflection shifts toward PVC as the content of nitrile groups increases. Minimum swelling corresponds to a maximum residual elongation. This proves an increasing combination of initial polymers and the existence of dispersion or polar bonds. Swelling curves of nitrocellulose (NC) + SKN-18 (\overline{IV}), NC + SKN-26 (\overline{V}) have points of inflection at 50% NC, curves of NC + SKN-40 (VI) obtained for 2 and 4 hr swelling are S-shaped, those obtained for a longer swelling time are straight. Minimum swelling corresponds to maximum strength and elongation limit. The binding strength increases due to dipole moments and decrease

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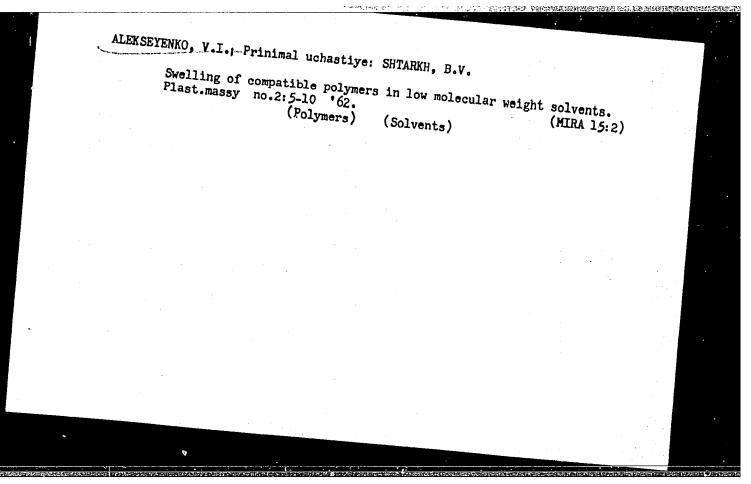
ार राज्या प्रस्तात स्था कर कर स्थानक स्थाप अन्यक्षित । स्थापील क्षेत्र स्थित स्थापील स्थापील स्थापील स्थापील स

33283 S/191/62/000/002/001/008 B110/B101

Swelling of combined polymers...

in intermolecular distance. Closest molecular packing is reached only with optimum component ratios. Swelling is affected by the acrylonitrile content in rubber. There exists a given amount of polarity in polymer combination. Sharp bends in the swelling curves of (II), (IV), and (V) prove the combination ability to be high at given component ratios, slightly S-shaped curves of (VI) and (III) show an increase in linkage energy. Greater linearity with increasing swelling time indicates the existence of a binding strength in the region of polar bonds with constant dipoles (6 - 10 kcal/mole). The author thanks B. V. Shtarkh for experimental assistance. V. A. Kargin (ZhFKh, 30, 1952 (1956)) is mentioned. There are 11 figures, 1 table, and 4 Soviet references.

Card 3/3



ALEKSEYENKO, V.I.; CHEKRIZOVA, A.P.; MISHUSTIN, I.G.; ZAVEL'GEL'SKIY, L.M.;

L'VOVA, L.V.; SHEYDINA, T.Z.; KREKSHINA, G.L.

New quick-setting adhesive for gluing soles. Kozh.-obuv.prom.

(Adhesives)

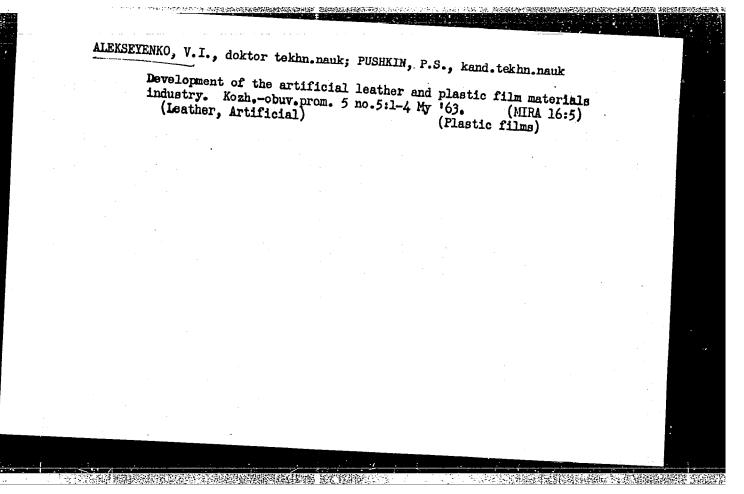
(Shoe mamufacture)

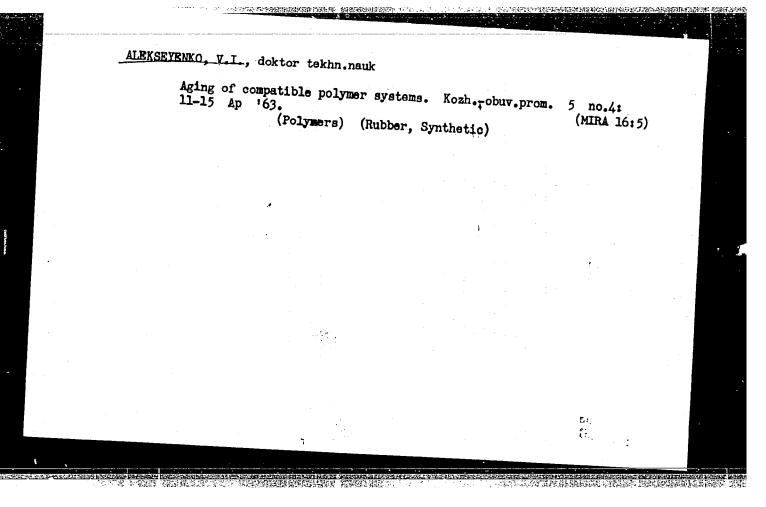
KHOROSHAYA, Ye.S.; KOVRIGINA, G.I.; ALEKSEYENKO, V.I.

Rapid method for determining the specific gravity of film materials.
Zav.lab. 28 no.2:205 '62. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut plenochnykh materialov i iskusstvennoy khozhi.

(Films (Chemistry)) (Specific gravity)





KORMUSHKIN, K.A.; ZAYONCHKOVSKIY, A.D.; ALEKSEYENKO, V.I.;

BERNSHTEYN, M.Kh.; YABKO, Ya.M.; KITAYEV, L.P.; YELPIDIN, N.F.;

Use of low-pressure polyethylene for the manufacture of sole parts. Kozh. obuv. prom. 5 no.7:26-29 Jl '63.

(Boots and shoes, Rubber)

(MIRA 16:8)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100920004-5"

PARTICIPATION SAMPLE PROPERTY OF THE PARTICIPATION OF THE PARTICIPATION

ALEKSEYENKO, V.I., doktor tekhn.nauk; MISHUSTIN, I.U., kand.tekhn.nauk

Viscoelastic properties of compatible polymer systems. Kozh.-obuv.

prom. 6 no.11:14-18 N '64.

(MIRA 18:4)

ALEKSEYENKO, V.I., doktor tekhn. nauk

Basic trends in the development of artificial leather for footwear. Kozh.-obuv. prom. 7 ro.4:13-16 Ap '65.

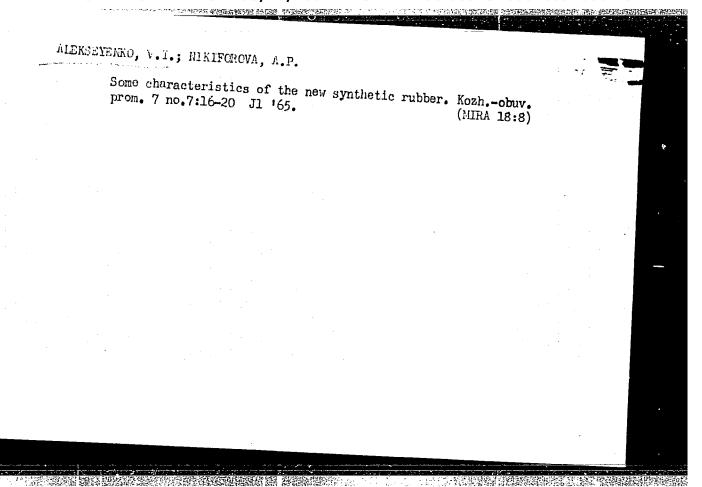
1. Direktor Vsesoyuznogo nauchno-issledovatel skogo instituta plenochnykh materialov i iskusstvennoy kozhi.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100920004-5"

hazakuva, 1.1.; ALEKSETENKO, V.I., dektor tekhn.nauk; MISHUSTIN, I.U., kand.
tekhn.nauk; KUZNETSOVA, T.A.

Processing of polymers into film materials. Zhur. VKHO 10 no. R:160-164 165.

(MIRA 18:6)



ALEKSASHINA, A.A. Use of ACTH in the treatment of acute_exudative pleurisy and pneumopleurisy of tuberculous origin [with summary in French]. Probl.tub. 35 no.3:34-37 157.

1. Iz TSentral'noy klinicheskoy bol'nitsy imeni Semashko (nach. V.A.Akopov) Ministerstva putey scobshcheniya i kefedry tuberkuleze TSentral nogo instituta usovershenstvovaniya vrachey (zav. kafedroy prof. A.E. Babukhin)

(MLRA 10:10)

(ACTH, therapeutic use, tuberc. exudative pleurizy & pneumopleurisy (Bus)) (TUBERCULOSIS, PULMONARY, therapy, ACTH in exudative pleurisy & pneumopleurisy (Rus))

L_3797-66 EWI(1) GW

ACCESSION NR: AT5023298 UR/2547/65/000/157/0058/0065 32/

AUTHOR: Yurkina, M. I.; Aleksashina, G. A.

\(\frac{4+1}{1+7:5-5} \)

TITLE: The estimate using an Earth's model of individual correction terms for the perturbation potential expansion coefficients in Stockes approximation

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut geodezii, aeros'yemki i kartografii. Trudy, no. 157, 1965. Issledovaniya po geodezicheskoy gravimetrii (Research on geodetic gravimetry), 58-65

TOPIC TAGS: geologic survey, Earth planet, measurement

ABSTRACT: During an expansion into spherical harmonics of perturbing potentials, the coefficient q_m of the Legendre polynomial P_m has the form $q_m = \frac{R_{Pm}^2}{m-1} + \frac{2-m}{4\pi R^2} \int T Q_m (g^3 a d \sigma) + \frac{1}{4\pi R} \int (g-1) Q_m (g^3 a d \sigma) - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi R^2} \int T_c \frac{\partial h}{R G \sigma} \frac{\partial Q_m}{\partial \theta} d \sigma - \frac{1}{2\pi$

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100920004-5"

L 3797-66

ACCENSION NR: AT 5023298

$$-\frac{1}{4\pi R} \sum_{\sigma} T_{e} Q_{m} f - \frac{1}{4\pi R^{2}} \int_{\sigma} T_{e} Q_{m} \frac{\partial h}{R \partial b} \operatorname{cig} 0 \, d\sigma,$$

Here \mathcal{F} -polar angle, \mathcal{L} -longitude, p_m - the respective expansion coefficient of the (g-3) gravitational anomaly, R - average radius of the Earth, T_c - Stockes approximation of the perturbing potential, \mathcal{F}_c - angle of inclination of the element of the physical surface of the Earth the projection of which on the reference sphere \mathcal{F}_c is equal to d 2, h - normal altitude,

$$J = R^2 \lim_{\Delta \to 0} \int \Delta_2 h \sin \theta \, d\theta \, d\lambda,$$

where $^{\circ}$ 2 - projection on the reference sphere of an arbitrary curvature of the edge obtained by cutting the plane representing the Earth's surface, and $^{\circ}$ 2h - the Mologenskiy operator. The authors investigated the 2nd, 8th, and 16th order terms of this expansion on a model consisting of a spherical Earth and a mountain range girding it. Heights of the vertical section of this range were assumed equal to those taken from hypsometric maps of Tibet, the Himalayas, and the Caucasus. The surface of the range was put approximately equal to the combined area of all the Earth's mountain regions. The paper presents the determination of the influence of the mountain ridge on the q m 's and gives an estimate of the accuracy of the computations as a function of magnitude of the elementary intervals of numerical integrations (the accuracy

Card 2/3

	L 3797-66 ACCESSION NR: AT5023298		る
	liminishes noticeably with the increase in the nummarized in the form of tables. Orig. ar ables.	elementary areas used). Results are t. has: 7 formulas, 3 figures, and 2	
	ASSOCIATION: Tsentral nyy nauchno-issled kartografii, Moscow (Central Scientific-Re Photographic Survey and Cartography)	ovatel'skiy institut geodezii, aeros''yen esearch Institute of Geodesy, Aerial 44,55	akt
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	Card 3/3		

ALEKSASHINA, G.A.

Use of a morel of the sarth in entireting the individual activating members to the Stokes approximation for the coefficients of decomposition of the disturbing potential. Trudy Tinitials analyzes.

Rationation of the mean square tilt in some regions of a stundard area. Obid. 266-63

(Mills 18:20)

Pokrovshchina 144 '52.	site (Pushkari 7). Uch.zap.Mosk.un. no.158:133 (PushkariStone implements)	 - -	
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Placenta previa. Vop.okh.mat. i det. 3 no.1:50-52 Ja-F '58.

1. Iz kafedry akusherstva i ginekologii (zav. - prof. A.B. odillerson) Omskogo gosudarstvennogo meditsinskogo instituta imeni M.I.Kalinina.

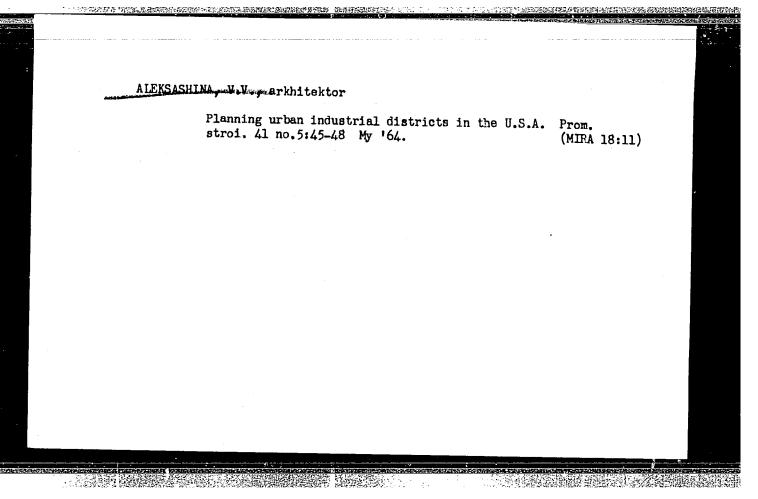
(IABOR, COMPLICATED)

ALEKSASHINA, M.I.

Placenta praevia and premature separation of the placenta.

Vop. okh. mat. i det. 6 no.10:54-58 0 '61. (MIRA 14:11)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. A.B.Gillerson) Omskogo gosudarstvennogo meditsinskogo instituta imeni M.I.Kalinina. (IABOR, COMPLICATED) (PLACENTA.-DISEASES)



ALEKSASHINA, V.V. Planning city industrial zones in England. Prom.stroi. 43 no.12:42-45 '65. (MIRA 18:12)

L 11551-66 EWT(1)/EWT(m)/EEC(k)-2/T/EWP(t)/EWP(b)/EWA(h) IJP(c) JD	
AUTHOR: Aleksashkin, A. A.; Bykov, Ye. I.; Zemlyanaysi, Ye. A.; Krotov, L. B.; ORG: none SOURCE CODE: UR/0105/65/000/001/0042/0048 Kurtsina/ Z. T.; Poselenov, L. B.; Sakovich, A. A.; Yuditskiy, S. B.	
ORG: none	
TITLE: New semiconductor rectifiers for the rectifier substations of subways SOURCE: Elektrichestvo, no. 1, 1965, 42-48	
TOPIC TAGS: semiconductor rectifier, electric engineering, electric substation	
ABSTRACT: Computations are presented to prove the feasibility and economy of replacing the six IVS-500/2 type sealed mercury-arc rectifiers with stacks of VK-200/4A type silicon rectifier cells (average current 200 amp; fier substations that supply 825 volts d-c for subway traction. The computed six-phase rectifier unit has six parallel branches per phase, with is computed on the basis of peak load and surge current, taking the circuit-breaker interrupting time into consideration. The number of series-connected cells is computed on the basis of the PIV's, with allowances for variations in the supply voltage. The overall efficiency of the rectifier unit is 98.9 percent. It is assembled from modular stacks (12 cells and one fan per module) and fits into two cabinets 800 by 600 by 2000 mm. Although at present silicon rectifiers are more expensive than mercury-arc	
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ALEKSASHKIN, A. V.

ALEKSASHKIN, A. V.: "Analytic methods of calculating transitory processes in DC electric motors with independent excitation." Min Higher Education USSR. All*Union Correspondence Polytechnic Inst. Moscow, 1956 (Dissertation for the degree of Candidate in Sciences)

SO: Knizhnaya Letopis', No 36, 1956, Moscow.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100920004-5"

8 (5)

SOV/112-57-5-10303

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1957, Nr 5, p 104 (USSR) AUTHOR; Aleksashkin, A. V.

TITLE: On the Problem of Calculating Transients in a Field-Controlled DC Motor (K voprosu o raschete perekhodnykh protsessov v dvigatele postoyannogo toka pri upravlenii vozbuzhdeniyem)

PERIODICAL: Sb. statey Vses. zaoch. politekhn. in-ta, 1956, Nr 14, pp 63-79
ABSTRACT: Bibliographic entry.

Card 1/1

HIEKSASHKIN HV

105-58-4-11/37

AUTHOR:

Aleksashkin, A. V., Candidate of Technical Sciences (Moscow)

TITLE:

Using Chaplygin's Method for the Calculation of Transient Processes in a Motor-Generator System (Primeneniye metoda Chaplygina k raschetu perekhodnykh protsessov v sisteme generator -

dvigatel')

PERIODICAL:

Elektrichestvo, 1958, Nr 4, pp. 51 - 52 (USSR)

ABSTRACT:

The increase of the velocity of a d.c. motor with independent excitation by a sudden change of the resistance in the generator exciter winding for the case of a static ventilator mo-

ment is investigated. When solving such a problem a differential equation is obtained for the behavior of the

differential equation is obtained for the behavior of the plant. This equation (3) is linear of first order and in its final form can not be integrated. Only approximation nethods can be applied here and such a method by S. A. Chaplygin (Ref 1) is used. By means of this method not only one approxi-

mated solution of the differential equation can be found but it can also be determined inhowfar the posed problem could be satisfactorily solved. In the present case it was shown that

Card 1/2

Using Chaplygin's Method for the Calculation of Transient Processes in a

the real velocity is located between the first and second approximation. Concluding the author states that based on the theory of the solutions of differential equations rather simple formulae of calculation were obtained. There are 1 figure and 1 Soviet reference.

SUBMITTED:

February 4, 1957

表现。 Machine 对导动电路域系统设计设计设置设计设置的图像设置的 Proceedings (1995)

AVAILABLE:

Library of Congress

1. Motor generators-Transients-Theory

Card 2/2

ALEKSASHKIN, Aleksandr Vladimirovich; BAKHSHIYAN, F.A., prof., doktor fiziko-matem.nauk, red.; ARTEHOVA, T.I., red.izd-va; SAGITULLINA, R.I., tekhn.red.

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[Double integral and change of the order of integration; lecture No.1] Dvoinoi integral i izmenenie poriadka integrirovaniia; lektsiia pervaia. Pod red. F.A.Bakhshiiana. Moskva, Vses.zaochnyi politekhn. in-t, 1959. 19 p.

(Integrals)

5/196/61/000/012/022/029 E194/E155

AUTHOR:

Aleksashkin, A.V.

TITLE:

Calculation of transient processes in a

generator-motor system

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.12, 1961, 10-11, abstract 12K 74. (Sb. statey Vses. zaochn. politekhn. in-ta, no.24, 1960, 11-15)

The article describes the use of Chaplygin's method to solve the differential equation of the transient process of starting a d.c. motor in a generator-motor system; the process is considered from the instant at which the armature commences to move. It is assumed that the motor is started by switching on the generator field circuit whilst maintaining the motor field constant, a static fan torque being applied to the motor shaft. The calculation makes no allowance for the electromagnetic time constant of the armature circuit. The fan equation for the running speed, which is not integrated in finite form, is solved by Chaplygin's method which gives not Card 1/2

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Calculation of transient processes. S/196/61/000/012/022/029 E194/E155

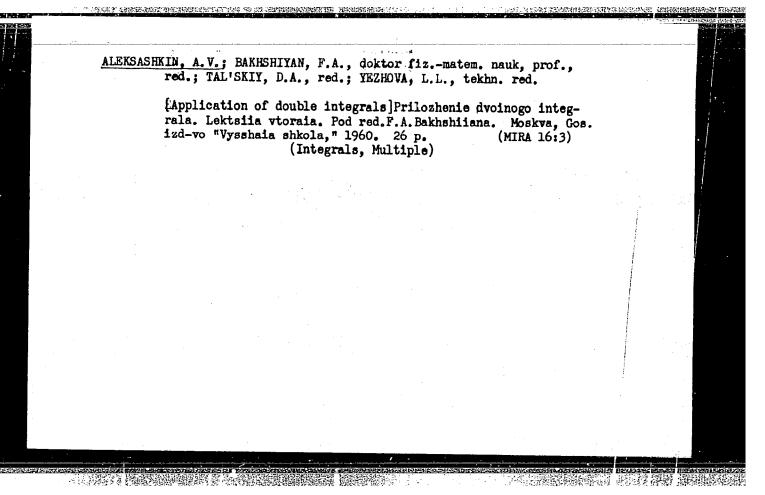
only the necessary approximate speed but also permits the speed to be related to the true integral of the initial equation. It is found that the true speed of the motor lies between the first and second approximations. In a particular case this latter differed from the true speed by not more than 11%.

2 literature references.

[Abstractor's note: Complete translation.]

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100920004-5"

Card 2/2



AID P - 2437

ALEKSASHKIN, V.

Subject : USSR/Aeronautics

Card 1/1 Pub. 135 - 3/19

Author : Aleksashkin, V., Lt. Col.

Title : Bombing from higher altitudes and from the stratosphere

Periodical: Vest. vozd. flota, 8, 14-18, Ag 1955

Abstract : The author gives a general description of the special

features of bombing from high altitudes and from the stratosphere. In particular, he explains the behaviour of the aircraft, the trajectory and speed of the bombs, and atmospheric conditions at high altitudes. He gives

some suggestions about flying and training, gives examples of well coordinated flights, and cities some

data. Some names are mentioned.

Institution: None

Submitted: No date

GOFMAN, I.L.; ZOTOVA, K.S.; ALEKSASHINA, L.M.; Prinimali uchastiye: VINNIK, M.M.; LYSENKO, M.G.; BAKARINOVA, N.M.; NIKITINA, N.A.

·古起西西美女的知识的是为自然是否是否是自己,但是他也是是她的问题是是自己的人。但是他已经的原因是一只是一个一个

Preparation of a tetrasodium pyrophosphate decahydrate food product based on phosphoric acid obtained by the extraction method. Khim.-prom. no.9:630-632 S '62. (MIRA 15:11)

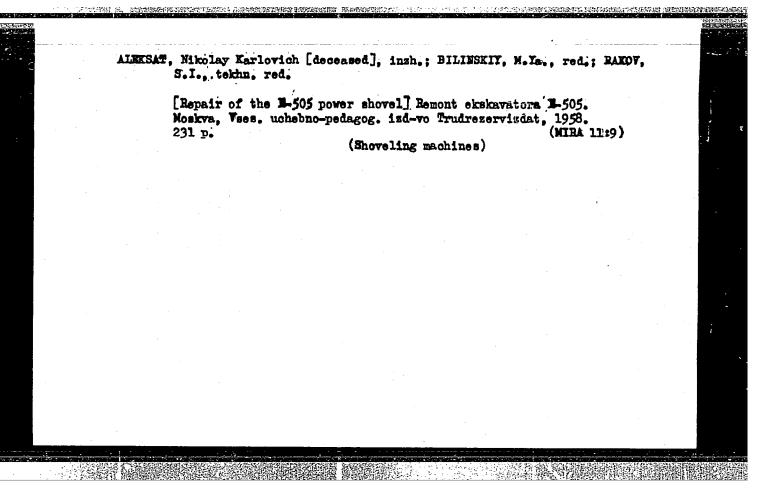
1. Nauchno-issledovatel'skiy institut po udobreniyam i insektofungisidam imeni Samoylova i Opytnyy zavod Nauchno-issledovatel'skogo instituta po udobreniyam i insektofungisidam imeni Samoylova. (Phosphoric acid) (Sodium pyrophosphate)

ALEKSAT, N.K.: DOHBROVSKIY, N.G., laurest Stalinskoy premii, professor, doktor tekhnicheskikh nauk.

[Single-bucket excavator operator] Mashinist odnokovshovogo ekskavatora. 2., perer,i dop. izd. Pod red. N.G.Dombrovskogo.

Moskva, Trudrezervizdat, 1953. 335 p. (MIRA 7:2)

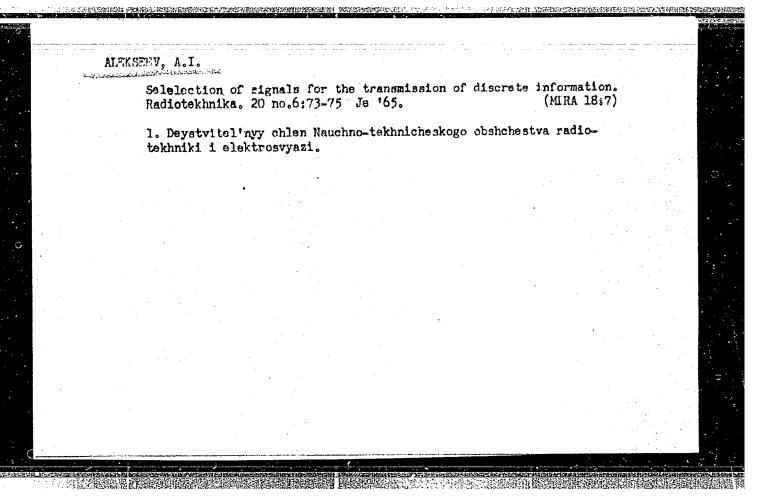
(Excavating machinery)



SUROVOY, Yu.N.; ALEKSAYEV, V.I.; SHVARTSMAN, L.A.

Thermodynamics of complex carbides (Fe Moy) 2C. Dokl. AN SSSR 157 no.4:951-953 Ag 164 (MIRA 17:8)

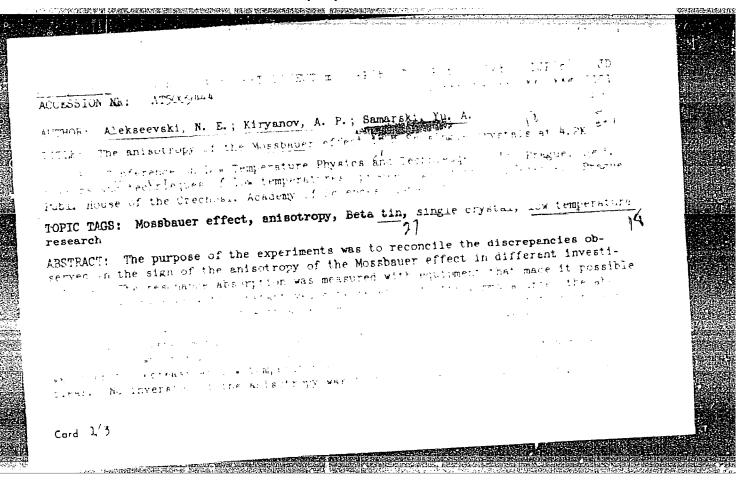
1. Institut metallovedeniya i fiziki metallov TSentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii im. I.P. Bardina. Predstavleno akademikom G.V. Kurdyumovym.



ALEKSEEV, IU.; GENCHEV, D., inzh.

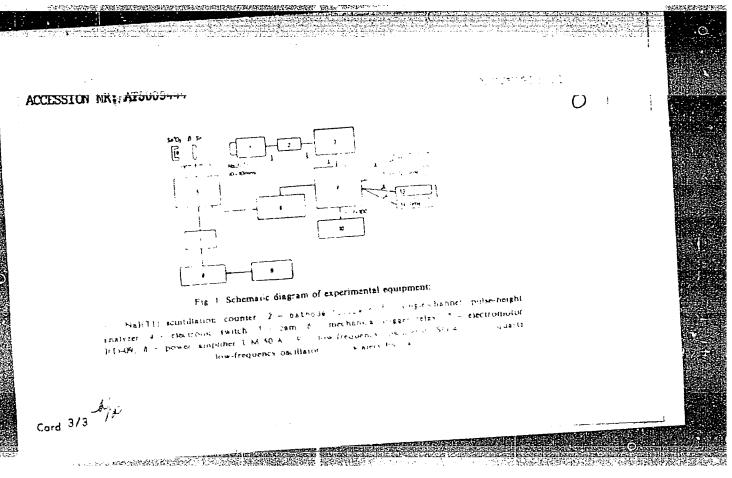
Labor wages based on the piecework-bonus system at the Georgi Damianov State Copper Combine, Pirdop. Trud tseni 5 no.2: 59-66 '63.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100920004-5"



L 60300-65 AT5005444 ACCESSION NR: the Lamb-Mossbauer factor were 0.31 ± 0.06 at 80% and 0.42 ± 0.06 at 4.2%. So hars thank P. L. Kapitas for encouragement and Professor V. S. Shpinel' and his Council Tailors for assistance and valuable discussions." Orig. art. has: 3 figures, ASSOCIATION: Institute fizicheskikh problem AN 8885 Institute of Physics Problems SS SUB CODE: AN SSSR) 01 ENCL: SUBMITTED: ∞ OTHER: 002 NR REF SOV: 004

Card 2/3

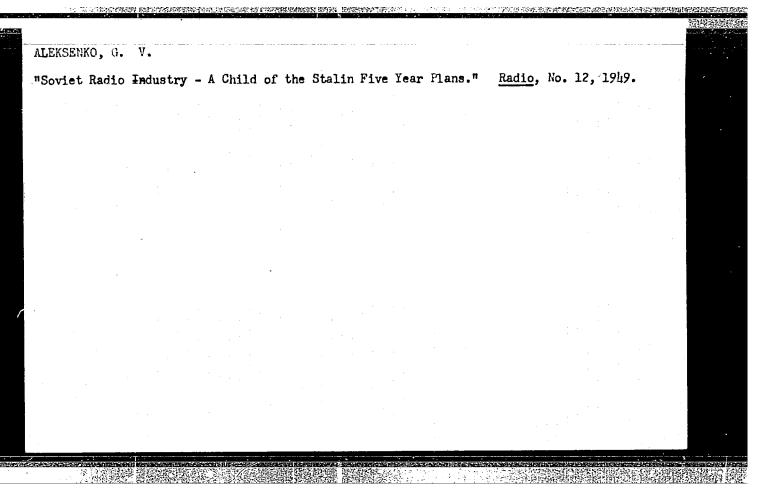


ALEKSENKO, A. I.

Sugar - Analysis and Testing

Determination of total nitrogen of sugar products. Sakh. prom. 26 no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. UNCLASSIFIED.



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ALEKSENKO, G. V.

Assembling and testing of high voltage tranformers Moskva, Goslenerg. izd-vo.
1933. Mic 53-318)

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Microfilm AC-97